

Graf. Garrison

Operating Instructions

Date:

Installation: _____

Unit: _____

Working Area:

Workshop

Workplace/Activity: Repair / Maintenance / Storage

Hazardous Substance Group

Acetylene (in compressed gas cylinders)

Example: use of acetylene gas for welding

Hazard for Human Health and the Environment

F+



Hochentzündlich

- Acetylene is an highly flammable, colourless gas – formation of explosive mixtures with ambient air !
- Explosive self decomposition through pressure shocks and heat – a warming up of gas cylinders increases danger of bursting!
- Acetylene is heavier than ambient air, due to displacement of oxygen acetylene has a suffocation effect i.e. potential for accumulation at areas located at a lower level - danger of suffocation and/or explosion!



Protective Measures and Behaviour Rules



- Make sure gas cylinders and fittings are absolutely tight
- Wear **safety gloves** during welding (e.g. against burns), wear **safety goggles** for eye protection through blending or glowing parts
- Protect compressed gas cylinders from falling, against beats, shocks and heat (e.g. through chains, bars or carriage)
- Use compressed gas cylinders only in well ventilated areas
- Ignition of the burner only with appropriate gas lighter, matches or cigarette lighters are inappropriate
- Protect compressed gas cylinders against strong warming up – danger of bursting
- Storage areas of compressed gas cylinders need to be well ventilated, keep away any sources of ignition
- Transport only with screwed on safety cap



Behavior in Danger Situations



- **Extinguishing media:** Dry chemical, carbon dioxide, foam or water (check extinguishing medium against surrounding)
- **Special fire hazards:** Gas cylinders can burst within a few minutes through strong rise of temperature – warn fire fighters of gas cylinders to be present !
- **Accidental release:** Leave danger zone, provide adequate ventilation, avoid any sources of ignition

EMERGENCY NUMBER: 117 (Fire Department)

NEXT PHONE: _____

First Aid



- **Contact to eyes:** Immediately flush with plenty of water for at least 10 minutes, seek medical attention immediately
- **Inhalation:** Remove to fresh air, take a rest and keep warm, give artificial respiration if needed, seek medical attention

EMERGENCY NUMBER: 117 (Fire Department)

NEXT PHONE: _____

Proper Disposal



After use, close valve immediately and screw on the protection/safety cap. Damaged and empty compressed gas cylinders should be disposed of as soon as possible.

Additional Remarks

Special information with reference to possible hazards for human health and environment as well as to hazard characteristics should also be taken from the **Material Safety Data Sheet (MSDS)**. For further information please refer to "General Operating Instructions".